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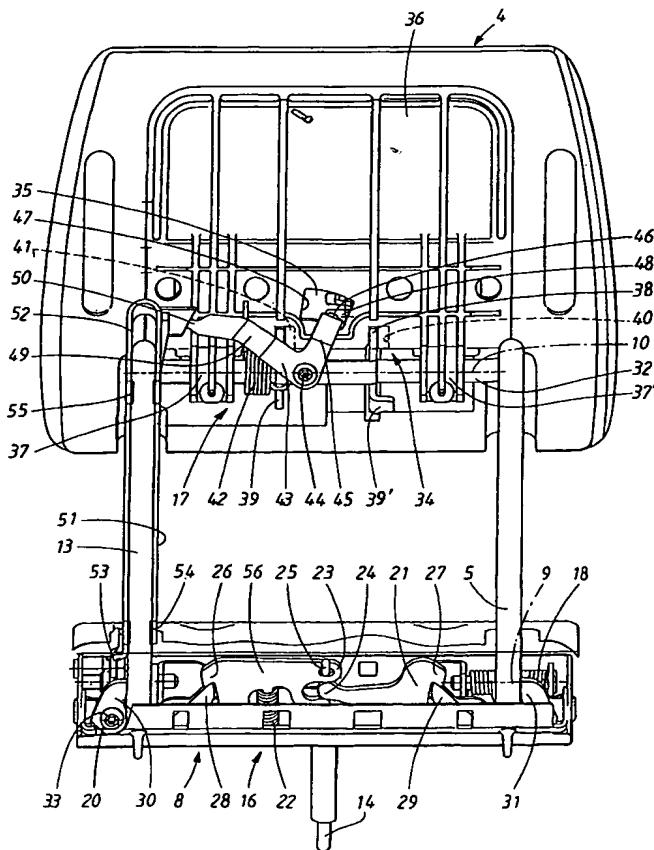
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[Continued on next page]

(54) Title: A HEAD REST FOR MOTOR VEHICLES



(57) Abstract: The present invention relates to a head rest for a vehicle seat in a motor vehicle. The head rest consists of an attachment (8) arranged on top of the back rest of the vehicle seat, a protective cushion (4) and one or several supporting arms (5, 13) which protrude from the attachment and support the protective cushion (4). The supporting arms are at their one end (7) pivotally attached to the attachment about a lower pivoting shaft (9), and the attachment exhibits a locking mechanism which in its use position for the head rest holds the locking arms pivotally locked about the first pivot shaft relative to the attachment. A release mechanism can, when activated, release the locking mechanism for pivoting of the supporting arms together with the protective cushion about the pivot shaft. The protective cushion (4) is also pivotally attached to the supporting arms (5, 13) about an upper pivoting shaft (10) and a second locking mechanism in the use position holds the protective cushion pivotally locked about the upper pivoting shaft relative to the supporting arm. A further release mechanism can, when activated, release the protective cushion from its pivotally locked position for pivoting of the cushion relative to the supporting arms.

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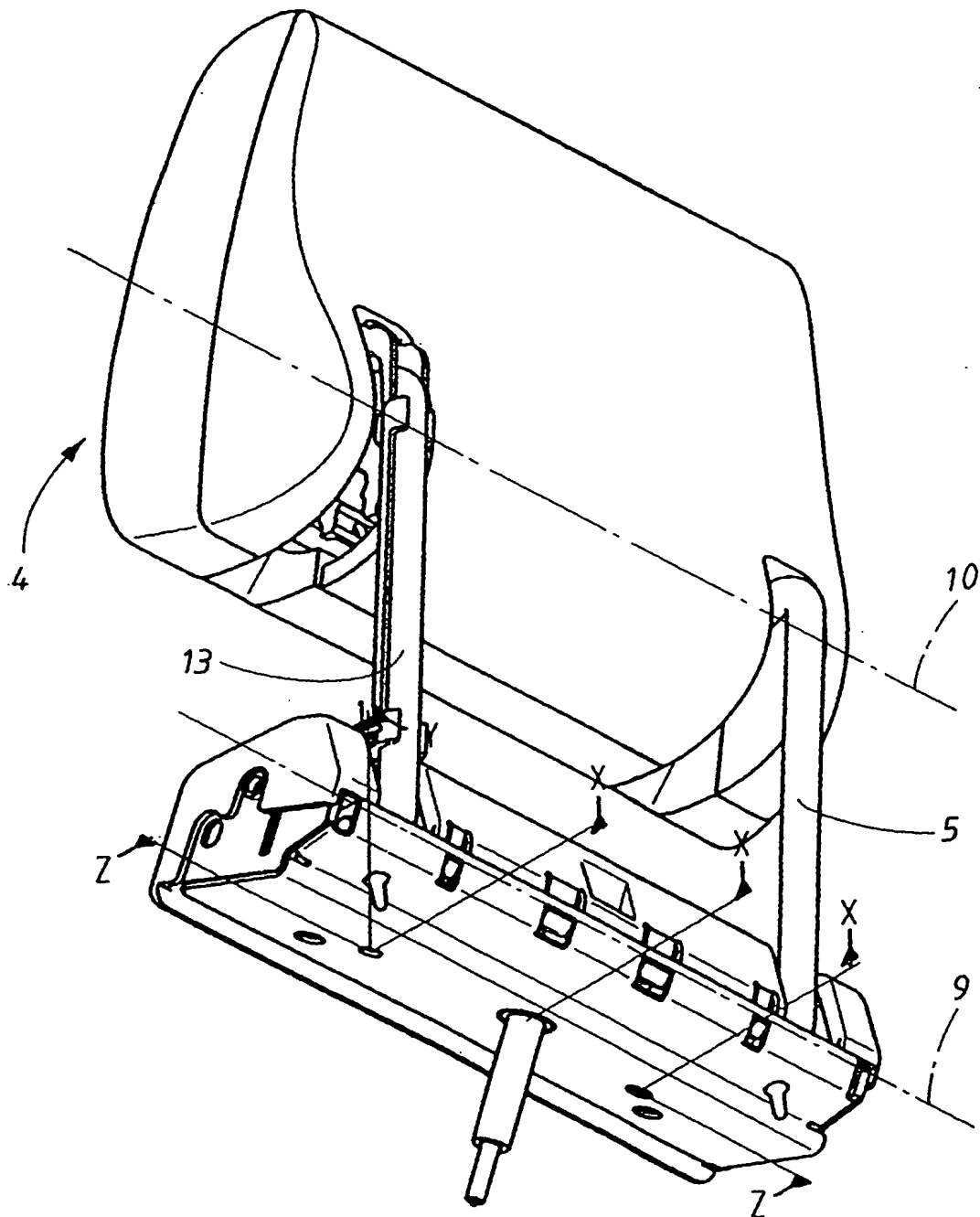


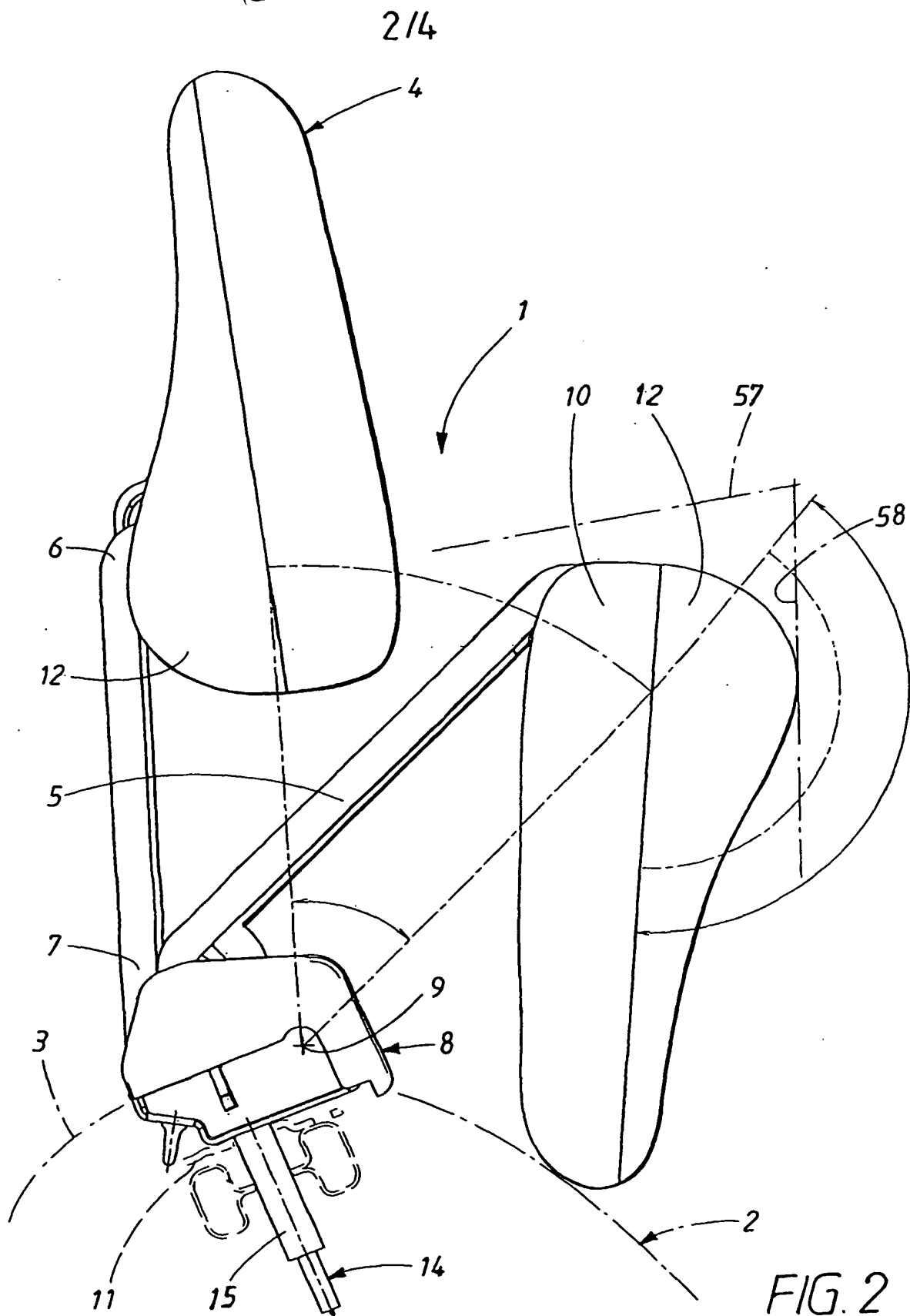
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FIG.1



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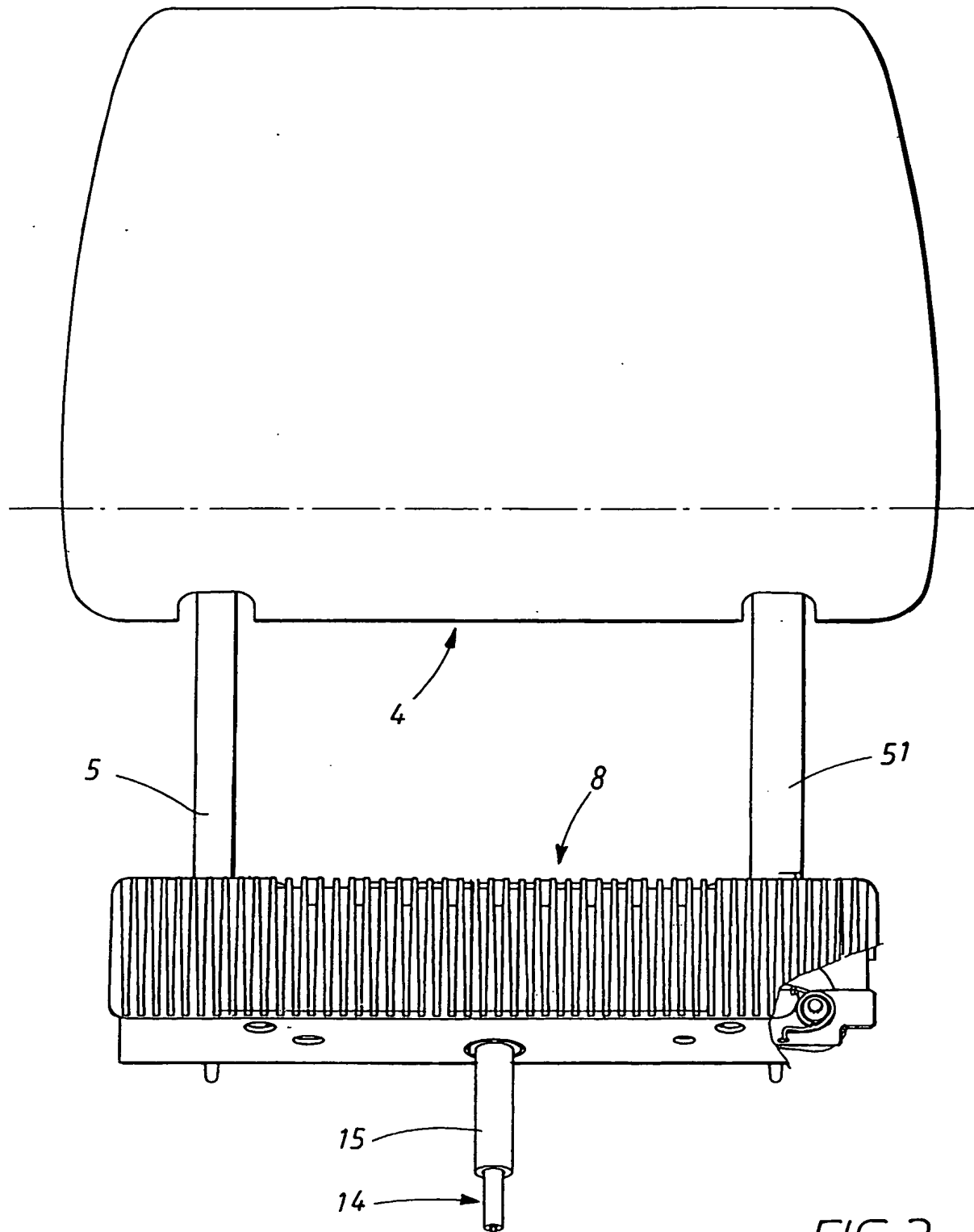
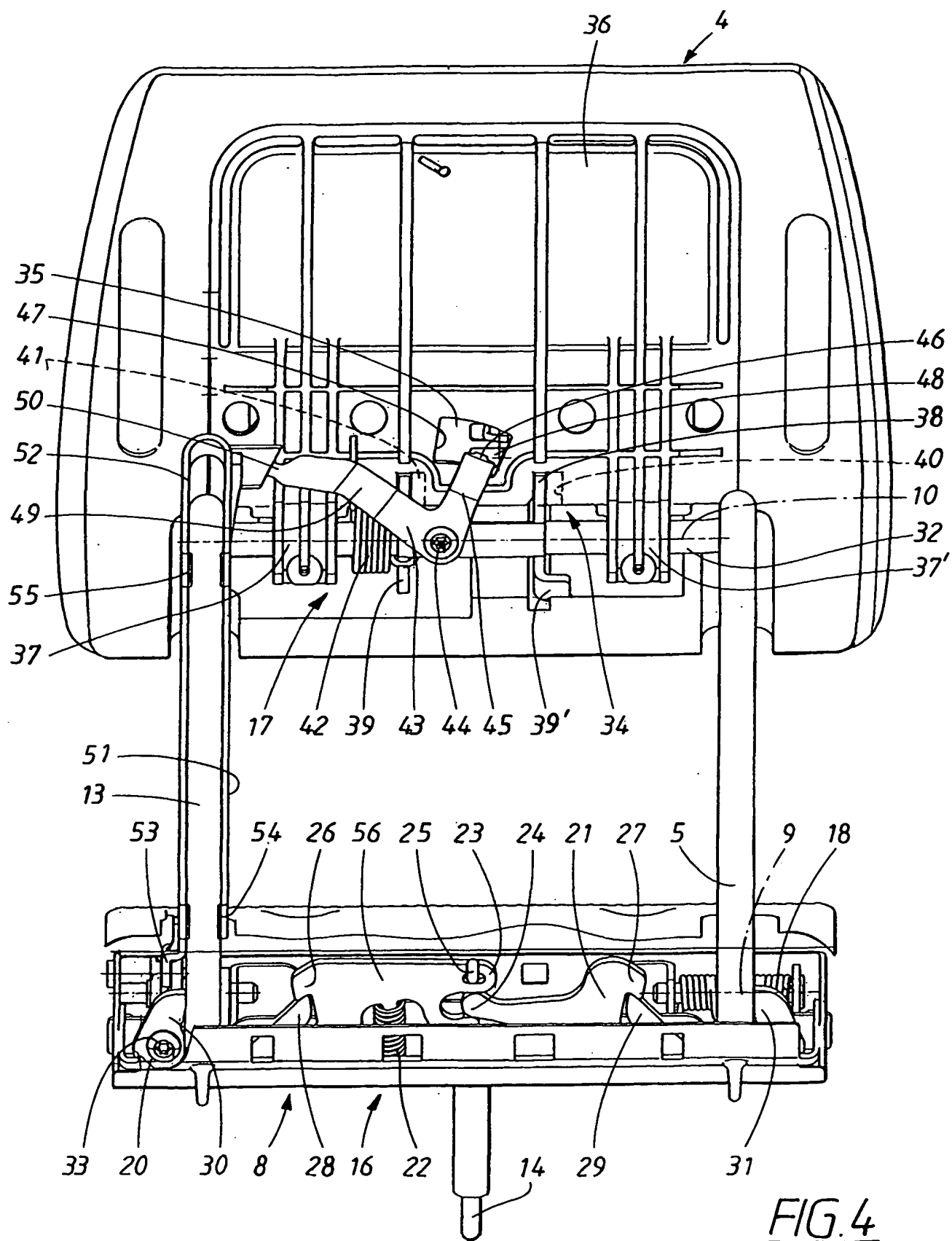


FIG. 3

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FIG. 4

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/00002

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B60N 2/48 // B60N 2/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 19914442 A1 (VOLKSWAGEN AG), 5 October 2000 (05.10.00)	1-6
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A	WO 9401302 A1 (SCANDMEC AB ET AL), 20 January 1994 (20.01.94)	1-6
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☒ See patent family annex.

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Patent document cited in search report			Publication date	Patent family member(s)	Publication date
DE	19914442	A1	05/10/00	NONE	
WO	9401302	A1	20/01/94	EP 0688273 A,B	27/12/95
				SE 500968 C	10/10/94
				SE 9101166 A	19/10/92